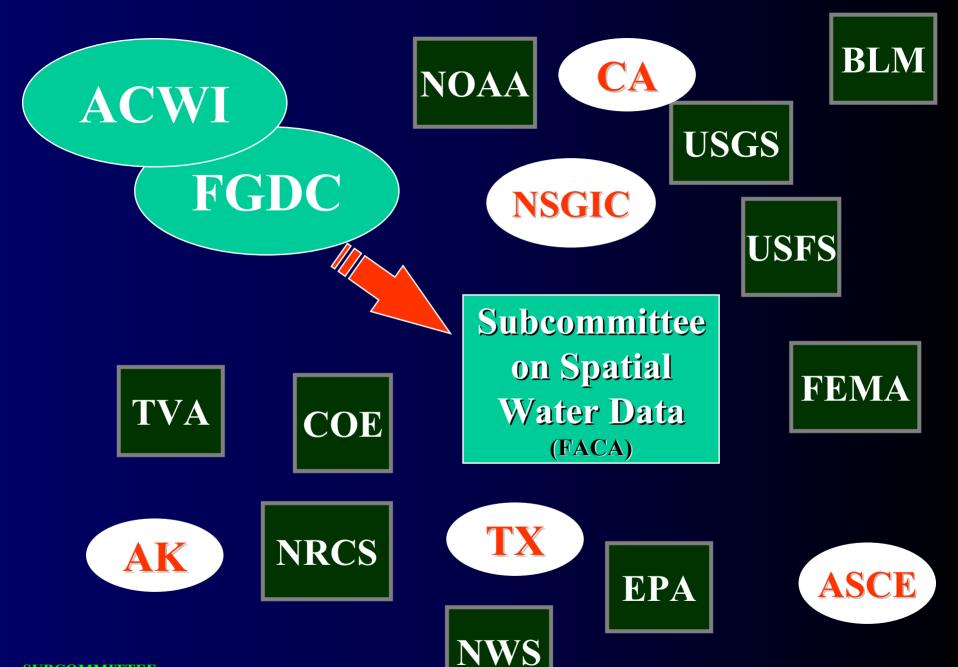


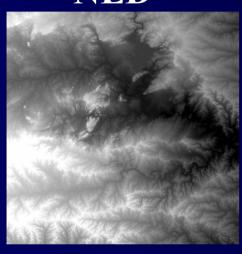
# Interagency Development of the National Watershed Database (WBD)



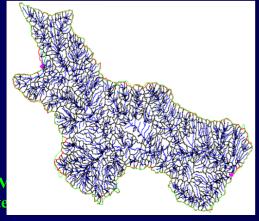
**SUBCOMMITTEE** spatial water data

# Integration of key Spatial Water Datasets

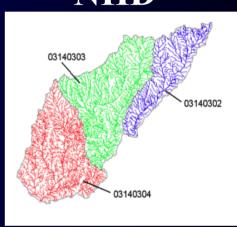
**NED** 



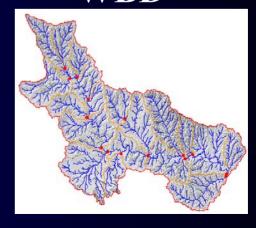
**EDNA** 



NHD



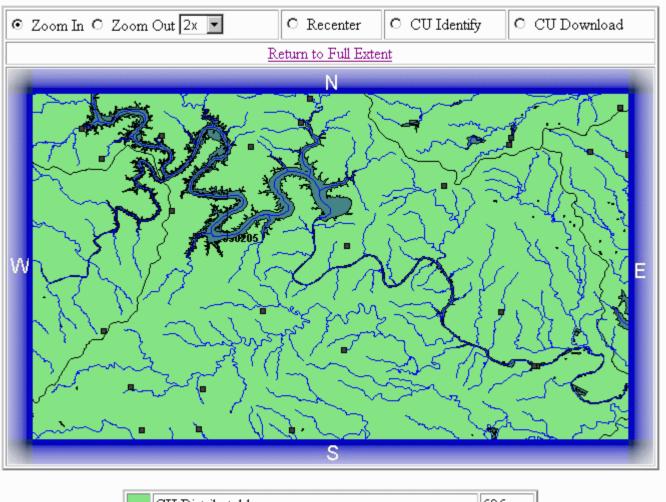
**WBD** 



SUBCOMN spatial water

National Hydrography Dataset

#### **Obtaining NHD Data**



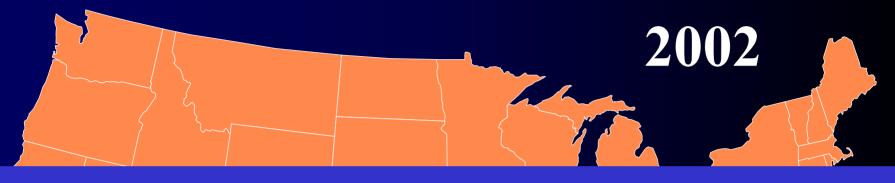
CU Distributable	626
CU Distributable * Initial Release	1356
CU in Progress	128

**D**=





# EDNA [alias NED-H]



# INITIAL PHASE COMPLETE FOR CONTIGUOUS U.S.!!



**SUBCOMMITTEE** spatial water data

## Hydrologic Units, 1973

National Watershed Network

2-digit= 1st level = 22 regions

4-digit= 2nd level = 222 subregions

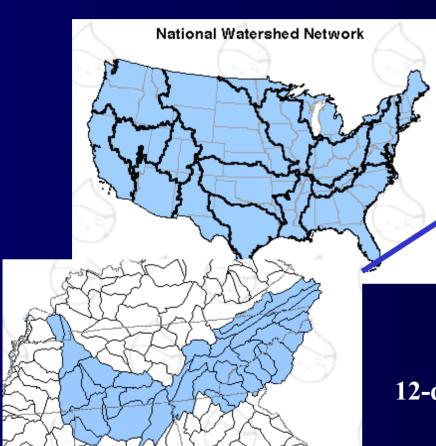
6-digit= 3rd level = 789 accounting

8-digit= 4th level = 2223 cataloging

# Watershed Boundaries Dataset (WBD): Why is it needed?

- 8-digit Cataloging Units too large
- uniform, widely accepted boundaries
- Need a standard nomenclature, ID's, names
- Speed up basin/drainage area delineation

## **Hydrologic Units**



**₹** 2-digit= 1st level = 22 regions

4-digit= 2nd level = 222 subregions

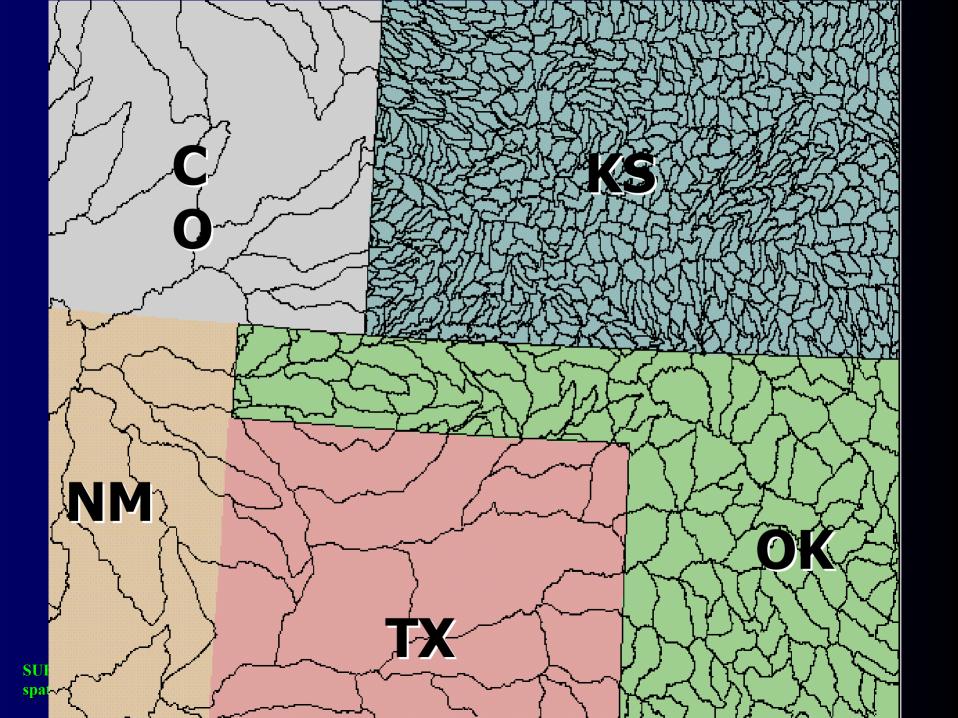
6-digit= 3rd level = 789 accounting

8-digit= 4th level = 2223 cataloging

#### new!

10-digit= 5th level =  $\sim$ 22,000 watersheds

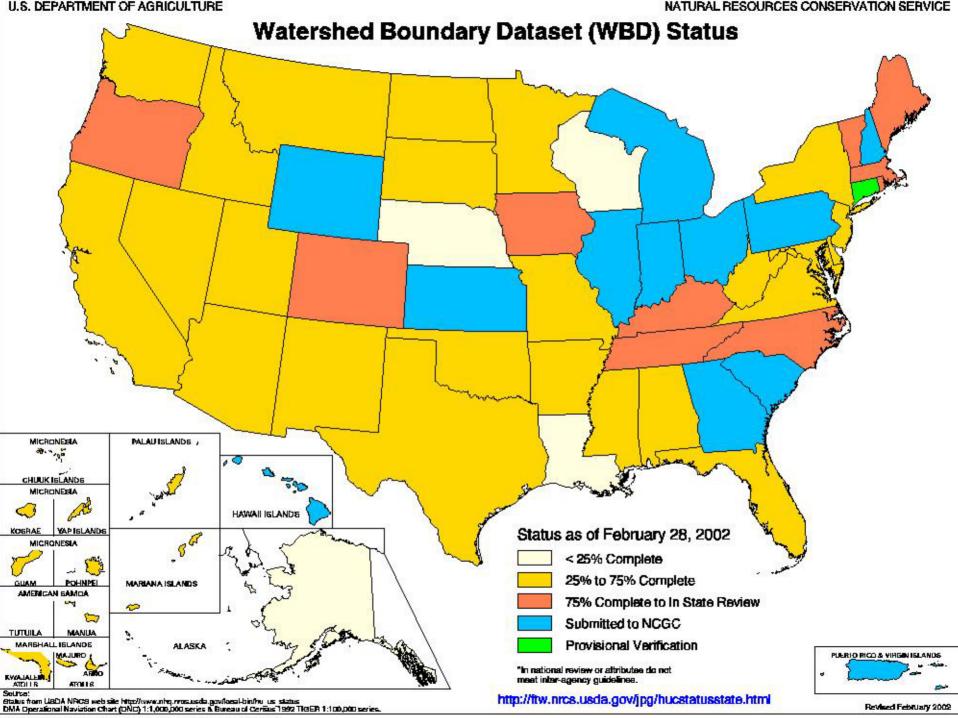
12-digit= 6th level =  $\sim$ 160,000 subwatersheds

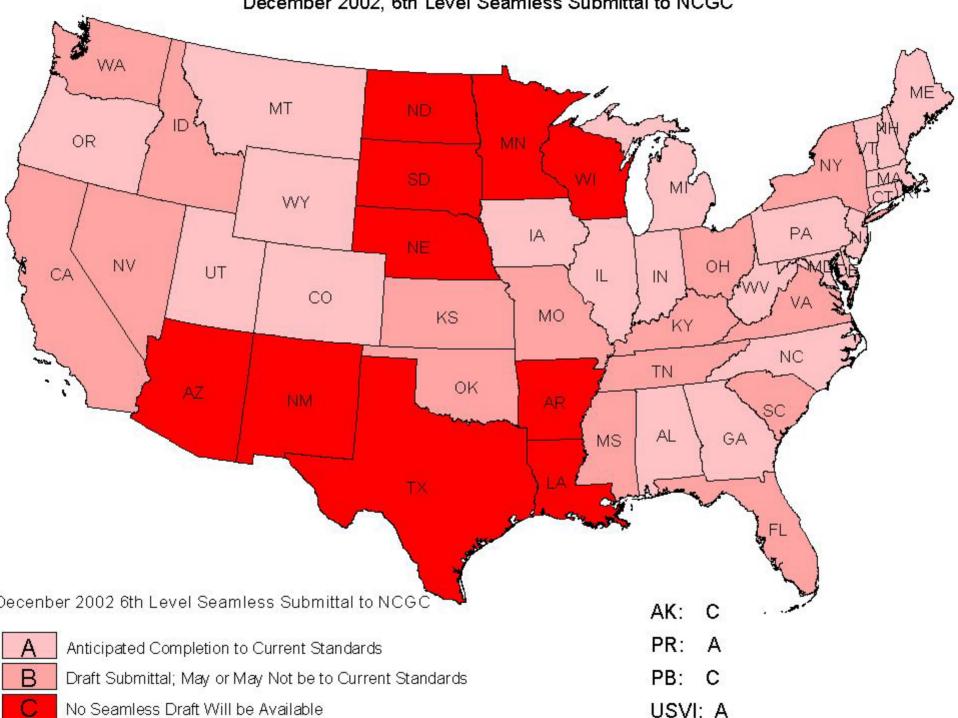




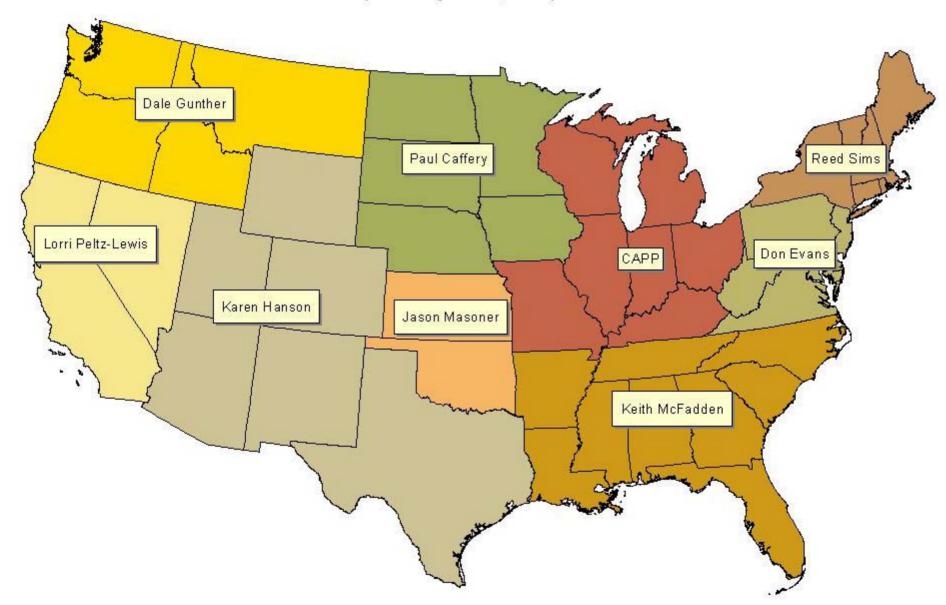
# Initial "draft" completed December 2002







#### Preliminary State Coordination Regions (as of April 30,2002)



Review ....

historically:

NRCS certification



currently:

Subcommittee review

#### Guidelines . . . .

[Things to think about in delineating the next logical level down:]

- one unified federal "guideline", accepted by all agencies
- Water flows to/through a single point
- Acreage
  - 5th level, 40,000-250,000 acres
  - 6th level, 10,000-40,000 acres
- Relatively equal in size.
- ~5-8 subdivisions of previous level (nested levels)
- Persistent, modification of existing FIPS/ANSI standard to encompass "watersheds" & "subwatersheds"

#### Unified guidelines:

#### names

- region, subregion, basin, subbasin, watershed, subwatershed
- naming convention for watersheds/subwatersheds

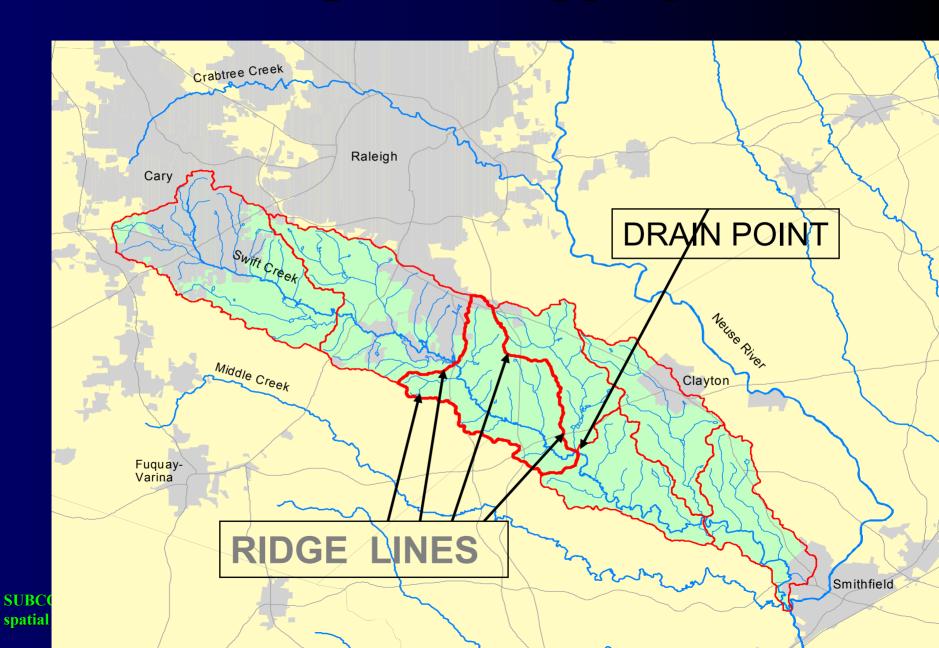
#### numbering

- headwaters to mouth increasing by one

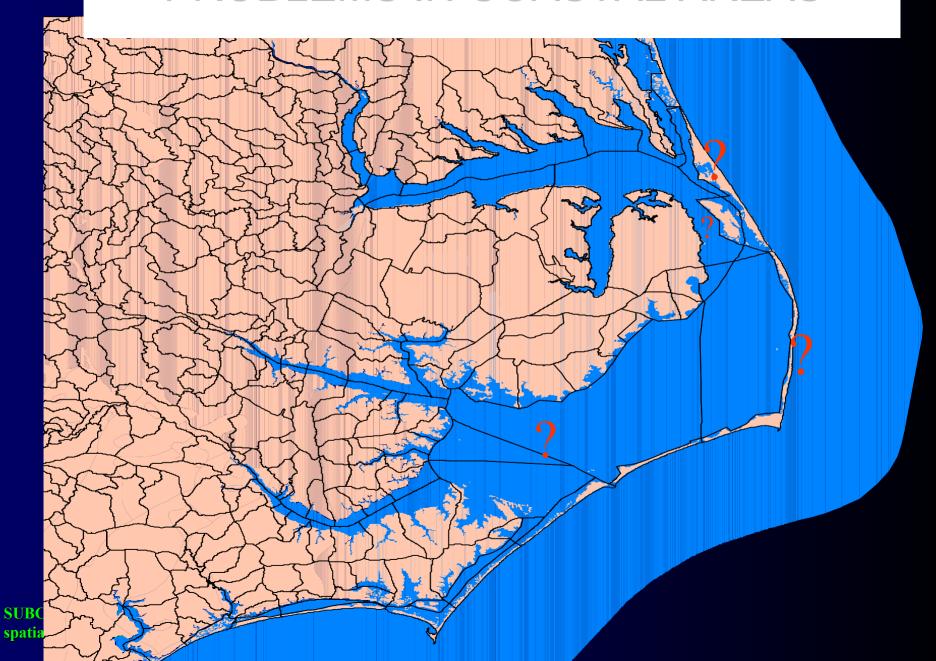
## topographic flow

- natural flow vs man's pertubations (ditches, canals)
- enhanced hydrologic attribution
  - ability to move upstream /downstream, karst

# Example of Mapping Criteria



#### PROBLEMS IN COASTAL AREAS



Subcommittee on Spatial Water Data

Coastal
Watersheds
Work Group

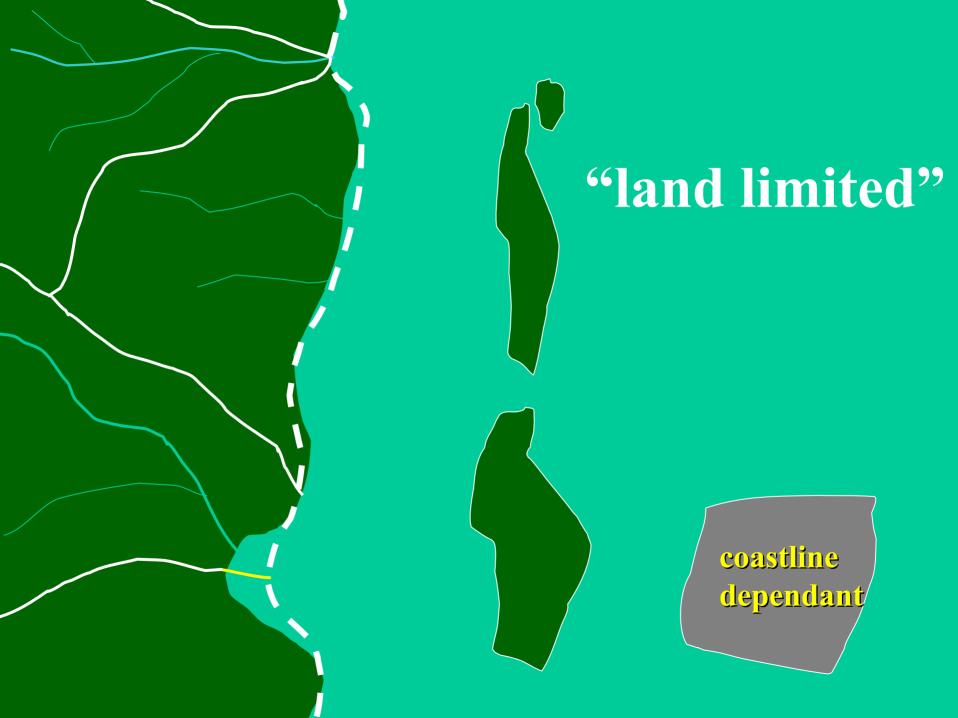
Guidelines Work Group

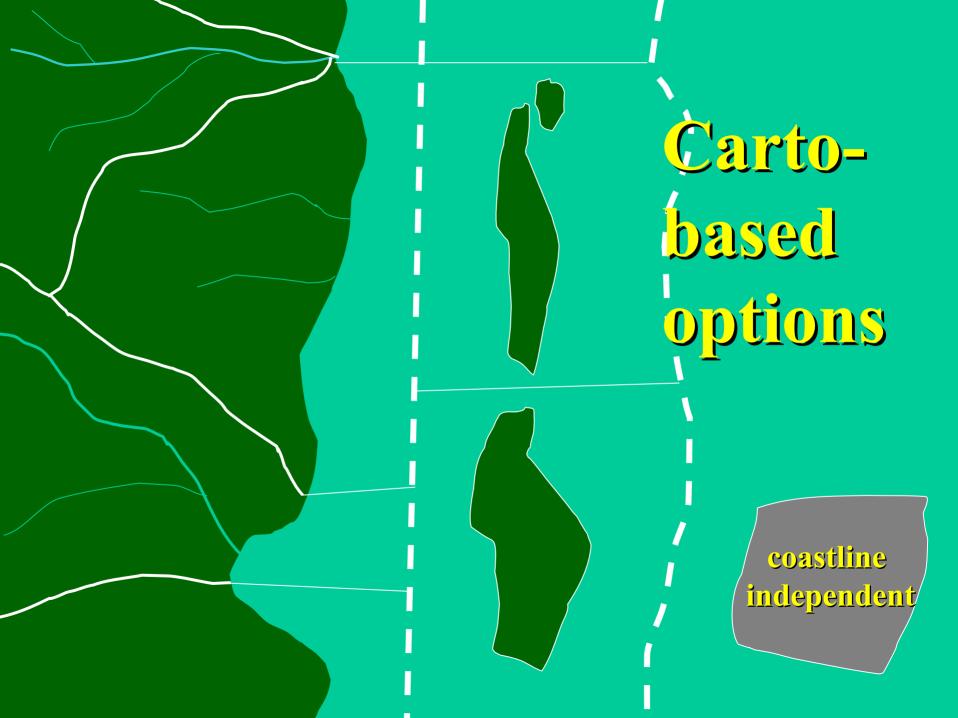
FGDC HUC Interagency Guideline

## NOAA/NOS Implementation

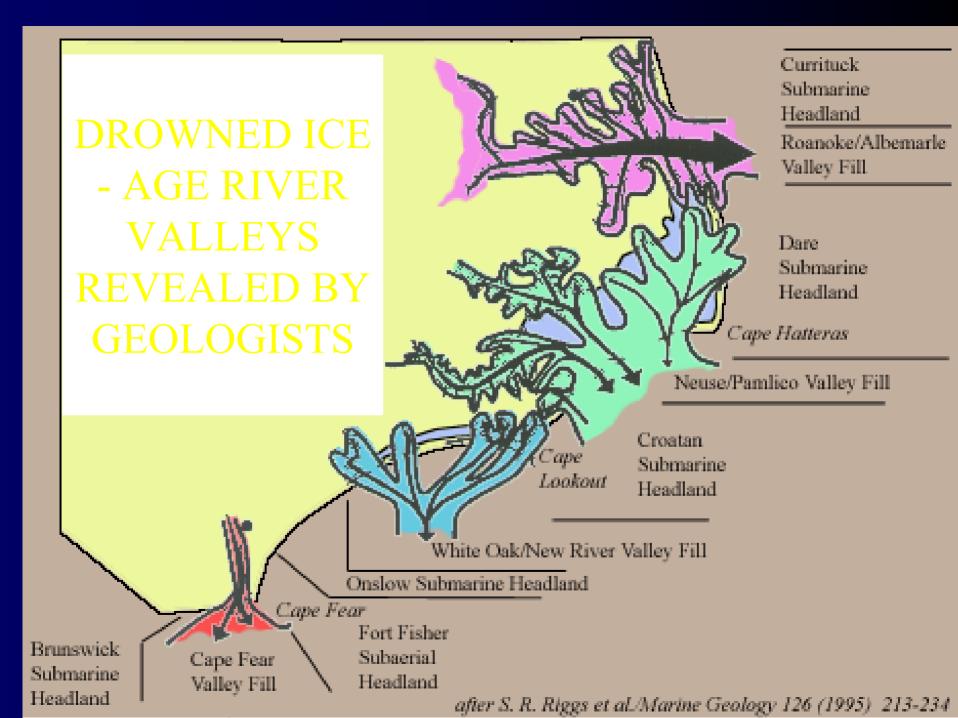
- Pilots
- Coastal delineation guidance
- state/coast implementation
  - Assisting state groups
    - -Workshops
    - Data and data manipulation
    - -One-on-one with States



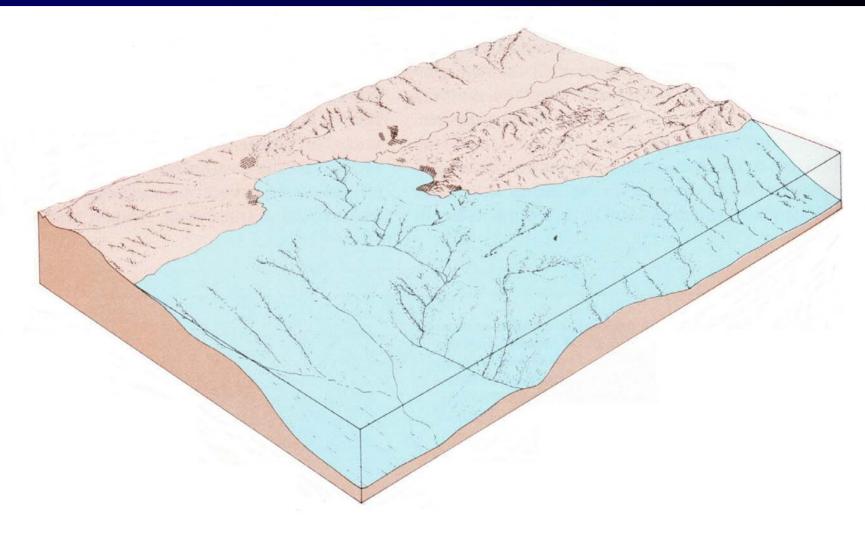








# Geomorphology



#### Selected test areas:

- Louisiana delta
- Great Lakes
- California/Oregon hard coast
- Florida coast
- Narragansett "New England" coast

#### For additional information visit...

water.usgs.gov/wicp

www.fgdc.gov

Current "guidelines"

www.ftw.nrcs.usda.gov



